

OETIKER

2-Ear Clamps

Product Group **101 & 151**



The first "Original" OETIKER Ear Clamp

This Hans Oetiker design was the first of its kind when it came onto the market in 1951 and, since then, it has revolutionized connection technology throughout the world. To this day, it has remained a best seller.

OETIKER 2-ear clamps are suitable for Original Equipment Manufacturing (OEM) and Maintenance Repair and Overhaul (MRO). These clamps are also suitable for use with rubber hoses, plastic tubing, electrical cables, welding hoses and other materials.

The 2-ear clamps, in comparison to the 1-ear clamps, have a larger clamping range. Due to the specific geometry of the closed ear, clamping force is increased and creates a spring effect when the hose material expands or contracts in response to thermal or mechanical influences such as temperature, vibration, etc.

For a perfect seal, the ear must be closed correctly at installation.

Material

- **101** Zinc plated steel DIN 1.0338 or SAE 1008/1010
- **151** Stainless steel DIN 1.4301 or UNS S30400

Size range

4.1 - 46.0 mm

Narrow version on request.

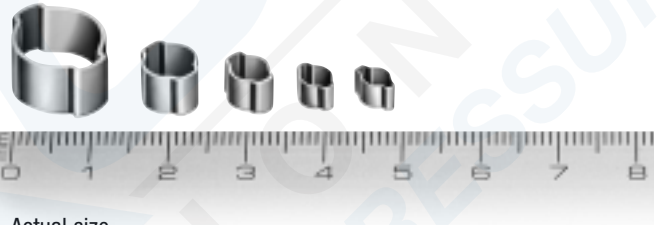
Installation

See page 23.

OETIKER will be happy to help you to make the right choice for your specific application. If you provide us with the relevant application samples and as much information as possible about your application, we can recommend the best product type, diameter and installation to suit your needs.

Features

- Robust construction with tamper proof durable seal
- For air and fluid media lines
- Fast and simple installation
- 2-Ear version for extended clamping range
- Surface technique treated edges for less risk of damage to hose
- Tampering is visible



Actual size



OETIKER Installation Tools

Product Group **139 & 141**

OETIKER Manual Pincers



Standard Jaw Pincers



Side Jaw Pincers



Narrow Jaw Pincers



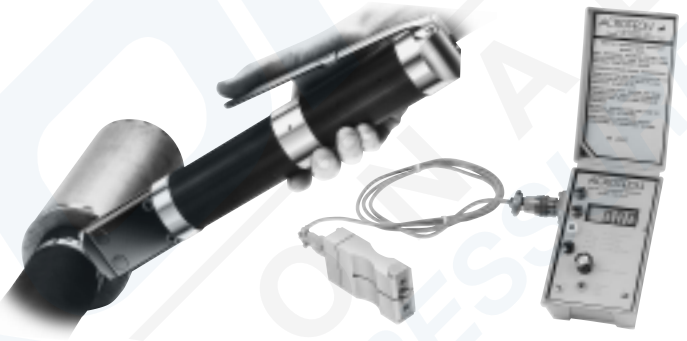
Pincers for Low Profile Clamps

Other OETIKER installation tools on request.

OETIKER will be happy to advise you on tooling and clamp installation procedures. For serial clamping, OETIKER can supply connection and other special equipment which has been designed for use with individual OETIKER products and which can also be integrated into the process of assembly lines.

OETIKER Pneumatic Pincers

OETIKER recommends the use of pneumatic pincers and electronic timing equipment in order to guarantee correct installation and an even seal on all clamps, especially in serial clamping.



OETIKER Electronically Controlled Pneumatic Power Tool ELK 01

NEW

The OETIKER ELK 01, this technologically new closure design guarantees safe clamp installation whilst, at the same time, ensuring that all necessary parameters are observed. The ELK 01 combines the advantages of OETIKER 1-ear clamps – tolerance compensation of the whole connection, constant radial force and optimum roundness – with those of the OETIKER stepless clamps – 360° surface pressure with no overlaps. Details of any parameters which need to be observed will be obtained from the user in the form of a checklist and the values will be shown visually on the display. The OETIKER ELK 01 includes software, a control and pincer unit. Quantify, qualify, verify and install clamps with new electronically controlled pneumatic power tool OETIKER ELK 01.



OETIKER

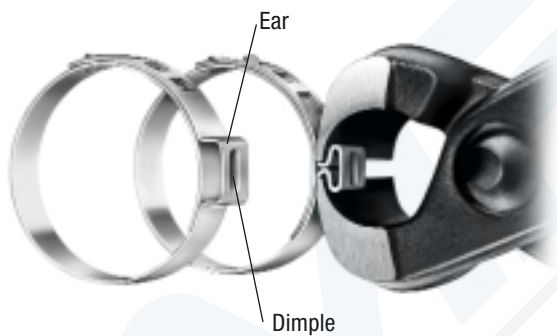
Instructions for Ear Clamp Installation



Careful selection and installation of an OETIKER clamp is important to ensure an even seal or connection. OETIKER can advise on and supply suitable tools. OETIKER ear clamps should only be used once and then discarded, the opening of the fitted clamp renders the product non-functional, tampering is visible.

OETIKER will be happy to help you to make the right choice for your specific application. If you provide us with the relevant application samples and as much information as possible about your application, we can recommend the best product type, diameter and installation to suit your needs.

As a general rule, the nominal size of clamp should be chosen so that when assembled on the connecting part (hose stem), the outside diameter of the hose lies approximately in the middle of the clamping range of the clamp (see also page 3 and price lists for OETIKER clamps). Please always quote the 8 digit article number when ordering.



Installation

Only OETIKER recommended tools must be used to close OETIKER clamp ears. It is also important that a constant stress should be applied to close OETIKER clamp ears. This method ensures positive stress on the hose which does not result in excessive compression or expansion of the band material.

Radial and Axial Clamp Installation

All ear clamp models which are also "stepless" and have a diameter ≥ 30 mm can be applied axially over the hose and radially as the hook lock on these clamps is easy to open. This enables it to be used on parts which are already installed as in repair and maintenance work.



Installation Techniques

Position clamp on hose fitted with hose stem.
Close clamp ear fully.



Permitted opening after closure

Using Standard Jaw Pincers



Using Side Jaw Pincers
– held parallel to hose



Using Pneumatic Pincers



To release clamp, position the pincers across the ear and cut through



To release stepless clamps, grip end of band with pincers and pull off.

Please contact OETIKER for further details about the correct installation of OETIKER Clamps and Rings. OETIKER would be happy to give individual advice about specific applications.